



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Bearnaley, et al

Serial No.: 09/509,849

Filed: September 18, 2000

For: Catalytic Coatings and Fuel  
Cell Electrodes and Membrane  
Electrode Assemblies Made  
Therefrom

§ Group Art Unit: 1745

§ Examiner: Maples, John

§ Atty Docket: GORE/MX492A/US

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**PRELIMINARY AMENDMENT AFTER RESPONSE  
TO RESTRICTION REQUIREMENT**

Please cancel claims 114-147 and add the following new claims. The new claims are added in response to the restriction requirement to ensure a full set of claims to the elected invention. The new claims do not narrow the scope of the previous claims.

178. (New) A fuel cell electrode comprising a support comprising a deposit disposed thereon, said deposit comprising a catalytically effective load of an electrocatalyst comprising an electrocatalytic active area at least in part comprising rod-shaped structures of said electrocatalyst.

179. (New) The fuel cell electrode of claim 178 wherein said rod-like structures are visible at a magnification of at least about x10k.

180. (New) The fuel cell electrode of claim 178 wherein said deposit further comprises particles of said electrocatalyst comprising an outer surface, wherein said electrocatalytic active area comprises a majority of said outer surface of said particles.

181. (New) The fuel cell electrode of claim 179 wherein said deposit further comprises particles of said electrocatalyst comprising an outer surface, wherein said electrocatalytic active area comprises a majority of said outer surface of said particles.

182. (New) The fuel cell electrode of claim 178 wherein said electrocatalyst comprises a metal selected from the group consisting of Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Mn, Tc, Re, Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Ni, Pd, Pt, Cu, Ag, and Au.